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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,363	09/30/2003	Pierre Colin	11091	5978
John D. Cowar	7590 05/25/2007		ЕХАМ	INER
Teradata Law IP, WHQ-4W			CHU, WUTCHUNG	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application No.	Applicant(s)
		10/675,363	COLIN ET AL.
		Examiner	Art Unit
		Wutchung Chu	2616
The Period for Re	e MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address
A SHORTI WHICHEV - Extensions after SIX (6) - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPLY ER IS LONGER, FROM THE MAILING DAD of time may be available under the provisions of 37 CFR 1.13 MONTHS from the mailing date of this communication. If or reply is specified above, the maximum statutory period we ply within the set or extended period for reply will, by statute, ceived by the Office later than three months after the mailing nt term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirn 18 apply and will expire SIX (6) MONTHS from 18 cause the application to become AB ANDONE	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)☐ This 3)☐ Sinc	ponsive to communication(s) filed on <u>30 Seconds</u> action is FINAL . 2b)⊠ This e this application is in condition for allowanted in accordance with the practice under <i>E</i>	action is non-final. ice except for formal matters, pro	
Disposition o	f Claims		
4a) C 5)	m(s) <u>1-24</u> is/are pending in the application. If the above claim(s) is/are withdraw m(s) is/are allowed. m(s) <u>1-24</u> is/are rejected. m(s) is/are objected to. m(s) are subject to restriction and/or	•	
Application P	apers		
10)⊠ The o Appli Repl	specification is objected to by the Examiner drawing(s) filed on 9/30/2003 is/are: a) a cant may not request that any objection to the cacement drawing sheet(s) including the correctionath or declaration is objected to by the Examiner.	accepted or b)⊠ objected to by t drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under	35 U.S.C. § 119		
12)	owledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
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2) Notice of D 3) Information	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO/SB/08))/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because figure 1box 100; figure 2 box 200, 205, 210, 220, 250, and 255; figure 3 box 300; figure 4 box 310; figure 5 box 320; figure 6 box 330; figure 7 box 340; and figure 8 box 440 are not labeled. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. In addition to Replacement Sheets containing the corrected drawing figure(s), applicant is required to submit a marked-up copy of each Replacement Sheet including annotations indicating the changes made to the previous version. The marked-up copy

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must be clearly labeled as "Annotated Sheets" and must be presented in the amendment or remarks section that explains the change(s) to the drawings. See 37 CFR 1.121(d)(1). Failure to timely submit the proposed drawing and marked-up copy will result in the abandonment of the application.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 9-16 are rejected under 35 U.S.C. 101 because the claimed invention is direction to non-statutory subject matter.

Claims 9-16 are directed to a nonstatutory subject matter because the claims are not written in terms of "computer" readable medium, stored with, embodied with or encoded with a "computer" program or computer executable instructions.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 9-16 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. "tangible storage medium" critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).

Regarding claims 9-16, the term "tangible storage medium" is not specified by the disclosure.

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6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 9-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 9 line 1-2, the recitation of "A computer program, stored on a tangible storage medium, for transferring data between computer systems, the program including executable instructions that cause one or more computers to:" is vague and indefinite because it is not known the metes and bounds of the claimed invention.

Claim Rejections - 35 USC § 103

- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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10. Claims 1-4, 6-12, 14-20, and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Janakiraman et al. (2004/0196785) in view of Geyer et al. (US6618357).

Regarding claims 1, Janakiraman et al. disclose congestion notification process and system (see Janakiraman et al. paragraph 8 line 1-3) comprising the steps of:

- (a) transmitting data packages from a plurality of data sources (see

 Janakiraman et al. paragraph 22 terminal clients and servers) in a first

 computer network to a first gateway (see Janakiraman et al. paragraph 22 line

 3 figure node and figure 1 box 102);
- (b) transmitting the data packages from the first gateway to a second gateway (see Janakiraman et al. paragraph 23);
- (c) transmitting the data packages from the second gateway to a plurality of data destinations in a second computer network (see Janakiraman et al. paragraph 22 line 3 figure node and figure 1 box 102 and line 15-16 the second node is identical to the first node);
- (d) transmitting acknowledgement messages from the data destinations to the second gateway (see Janakiraman et al. paragraph 28 line 1-5 and figure 4 box 502 and 504);

Regarding claim 1, Janakiraman et al. disclose all the subject matter of the claimed invention with the exception of (e) generating pause messages at the second gateway based at least in part on the reception of acknowledgement messages by the

second gateway; and (f) transmitting the pause messages from the second gateway to the first gateway.

Geyer et al. from the same or similar fields of endeavor teaches the use of generating a pause frame which may be directed back upstream to the identified source stations (see Geyer et al. column 5 line 8-11).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the generating a pause frame which may be directed back upstream to the identified source stations as taught by Geyer et al. in the congestion notification process and system of Janakiraman et al. in order to provide a efficient and reliable system that all the data transmitted was properly received.

Note: the phrase "capable of" of "adapted to" recited in claim 2 line 2 do not positively support claim limitations, therefore, the limitation after these phrases will not be considered as claimed limitations. However, the cited reference teaches the limitations (see rejection).

Regarding claim 2, Janakiraman et al. teaches the first gateway includes a mailbox (see Janakiraman et al. paragraph 28 packet is buffered) and an output task (see Janakiraman et al. paragraph 28 flag), the data packages are transmitted to the mailbox (see Janakiraman et al. paragraph 28 packet is buffered) in step (a), and the output task is capable of retrieving data packages stored in the mailbox (see Janakiraman et al. paragraph 28 after initializing the flag, the data packet is sent to the receiver).

Regarding claim 3, Janakiraman et al. disclose all the subject matter of the claimed invention with the exception of transmitting the pause messages from the first gateway to the plurality of data sources.

Geyer et al. from the same or similar fields of endeavor teaches the use of generating a pause frame which may be directed back upstream to the identified source stations (see Geyer et al. column 5 line 8-11).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the generating a pause frame which may be directed back upstream to the identified source stations as taught by Geyer et al. in the congestion notification process and system of Janakiraman et al. in order to provide a efficient and reliable system that all the data transmitted was properly received.

Regarding claim 4, Janakiraman et al. teaches step (a) is performed by a plurality of sending tasks created by the data sources (see Janakiraman et al. paragraph 22 terminal clients and servers and paragraph 23 corresponds to a plurality of sending tasks).

Regarding claim 6, Janakiraman et al. teaches the first gateway includes an input task and an output task, the second gateway includes an input task and an output task (see Janakiraman et al. figure 1 box 102 corresponds to first gateway box 104 corresponds to second gateway), step (b) is performed by the output task of the first gateway (see Janakiraman et al. paragraph 23),

Regarding claim 6, Janakiraman et al. disclose all the subject matter of the claimed invention with the exception steps (c) and (e) are performed by the input task of the second gateway, and step (f) comprises transmitting the pause messages from the output task of the second gateway to the input task of the first gateway.

Geyer et al. from the same or similar fields of endeavor teaches the use of generating a pause frame which may be directed back upstream to the identified source stations (see Geyer et al. column 5 line 8-11 and it is obvious that gateway to have input and output tasks since it includes input ports and output ports in column 4 line 53-55).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the generating a pause frame which may be directed back upstream to the identified source stations as taught by Geyer et al. in the congestion notification process and system of Janakiraman et al. in order to provide a efficient and reliable system that all the data transmitted was properly received.

Regarding claim 7, Janakiraman et al. teaches further comprising the steps of:

(g) transmitting acknowledgement messages from the first gateway to the data sources

(see Janakiraman et al. paragraph 26 line 1-12).; and (h) counting the

acknowledgement messages received at each data source (see Janakiraman et al.

paragraph 28 line 5-12).

Regarding claim 8, Janakiraman et al. teaches further comprising the steps of:

(g) sending messages with data package transfer information from the data sources to the first gateway (see Janakiraman et al. paragraph 22 line 25 clients and

paragraph 23 and 24 line 1-6).

paragraph 22 line 1 first node); (h) sending a message with the data package transfer information from the first gateway to the second gateway (see Janakiraman et al. paragraph 22 line 1-3 first node and second node); (i) sending messages with the data package transfer information from the second gateway to the data destinations (see Janakiraman et al. paragraph 22 line 25 servers); and (j) checking the data package transfer information at the data destinations (see Janakiraman et al.

Note: the phrase "capable of" of "adapted to" recited in claim 10 line 2 and claim 18 line 2 do not positively support claim limitations, therefore, the limitation after these phrases will not be considered as claimed limitations. However, the cited reference teaches the limitations (see rejection).

Regarding claims 9-12, and 14-16, Janakiraman et al. teaches a software implementation of congestion notification (see Janakiraman et al. paragraph 24 line 12) and disclose all the limitations as discussed in the rejection of claims 1-4, and 6-8 and are therefore apparatus claims 9-12, and 14-16 are rejected using the same rationales.

Regarding claims 17-20, and 22-24, Janakiraman et al. teaches congestion notification process for use in a communication network system (see Janakiraman et al. paragraph 8 and paragraph 1) and disclose all the limitations as discussed in the rejection of claims 1-4, and 6-8 and are therefore apparatus claims 17, 18, 20, and 22 are rejected using the same rationales.

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11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 5, 13, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Janakiraman et al. and Geyer et al. as applied to claims 1-4, 6-12, 14-20, and 22-24 above, and further in view of Lindhorst-ko et al. (US2002/0075873).

Regarding claims 5, 13, and 21, Janakiraman et al. and Geyer et al. disclose all the subject matter of the claimed invention with the exception (g) adding sequence identifiers to the data packages in step (a); (h) checking the sequence identifiers added in step (g) at the first gateway; (i) adding sequence identifiers to the data packages in step (c); and (j) checking the sequence identifiers added in step (i) at the data destinations.

Lindhorst-ko et al. from the same or similar fields of endeavor teaches the use of tagging data packets with a sequence number, and reconstructing the traffic from the received data packet (see Lindhorst-ko et al. paragraph 35 and 36).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the tagging data packets with a sequence number, and reconstructing the traffic from the received data packet as taught by Lindhorst-ko et al. in the modified congestion notification process and system of Janakiraman et al. and Geyer et al in order to provide a greater protection and more efficient system.

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Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ben-Yehezkel et al. (US2002/0165973) discloses adaptive transport protocol.

Mostafa (US2002/0073205) discloses communication service

Taguchu et al. (US2004/0024808) discloses wide area storage localization system.

Souder et al. (US6889231) discloses asynchronous information sharing system.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wutchung Chu whose telephone number is 571 270

1411. The examiner can normally be reached on Monday - Friday 1000 - 1500EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571 272 7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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WC

Wutchung Chu

WING CHAN

SUPERVISORY PATENT EXAMINER